



US005924074A

United States Patent [19]

Evans

[11] **Patent Number:** **5,924,074**[45] **Date of Patent:** **Jul. 13, 1999**[54] **ELECTRONIC MEDICAL RECORDS SYSTEM**[75] Inventor: **Jae A. Evans**, Carlsbad, Calif.[73] Assignee: **Azron Incorporated**, San Diego, Calif.[21] Appl. No.: **08/721,182**[22] Filed: **Sep. 27, 1996**[51] **Int. Cl.⁶** **G06K 07/00**[52] **U.S. Cl.** **705/3; 705/2; 707/1; 707/3; 707/10**[58] **Field of Search** **705/3, 2; 707/1, 707/3, 10, 100, 102, 104**[56] **References Cited****U.S. PATENT DOCUMENTS**

| | | | |
|-----------|--------|---------------------|---------|
| 3,872,448 | 3/1975 | Mitchell, Jr. . | |
| 5,416,695 | 5/1995 | Stutman et al. | 600/300 |
| 5,659,741 | 8/1997 | Eberhardt | 707/104 |

OTHER PUBLICATIONS

Declaration of Hollon H. Bridges, Jr., Dated Sep. 24, 1996, pp. 1-2.

Declaration of Jae A. Evans, Dated Sep. 27, 1996, pp. 1-5 including Exhibit A, 1 p.

Declaration of Marion Neal, Dated Sep. 26, 1996, pp. 1-3.
Declaration of David Printz, Dated Sep. 26, 1996, pp. 1-2.
Kleinholz et al., "Supporting Cooperative Medicine: The Bermed Project," *IEEE MultiMedia*, vol. 1, No. 4, Dec. 21, 1994 pp. 44-53.

Primary Examiner—Thomas R. Peeso

Attorney, Agent, or Firm—Knobbe, Martens, Olson & Bear LLP

[57] **ABSTRACT**

A medical records system that creates and maintains all patient data electronically. The system captures patient data, such as patient complaints, lab orders, medications, diagnoses, and procedures, at its source at the time of entry using a graphical user interface having touch screens. Using pen-based portable computers with wireless connections to a computer network, authorized healthcare providers can access, analyze, update and electronically annotate patient data even while other providers are using the same patient record. The system likewise permits instant, sophisticated analysis of patient data to identify relationships among the data considered. Moreover, the system includes the capability to access reference databases for consultation regarding allergies, medication interactions and practice guidelines. The system also includes the capability to incorporate legacy data, such as paper files and mainframe data, for a patient.

46 Claims, 26 Drawing Sheets